



UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office

NOTICE OF ALLOWANCE AND ISSUE FEE DUE

MM41/0924

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| APPLICATION NO. | FILING DATE | TOTAL CLAIMS | EXAMINER AND GROUP ART UNIT | DATE MAILED |
|-----------------------|----------------------------|--------------|-----------------------------|-------------|
| 09/101.612 | 09/14/98 | 015 | VU. D 2821 | 09/24/99 |
| First Named Applicant | MARGETSON, GUY EDWARD JOHN | | | |

TITLE OF INVENTION VISUAL INFORMATION SYSTEMS

| ATTY'S DOCKET NO. | CLASS-SUBCLASS | BATCH NO. | APPLN. TYPE | SMALL ENTITY | FEE DUE | DATE DUE |
|-------------------|----------------|-------------|-------------|--------------|-----------|----------|
| 2 | EM240190745U | 315-076.000 | B98 UTILITY | NO | \$1210.00 | 12/27/99 |

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED.

THE ISSUE FEE MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED.

HOW TO RESPOND TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.
If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

- A. If the status is changed, pay twice the amount of the FEE DUE shown above and notify the Patent and Trademark Office of the change in status, or
- B. If the status is the same, pay the FEE DUE shown above.

If the SMALL ENTITY is shown as NO:

- A. Pay FEE DUE shown above, or
- B. File verified statement of Small Entity Status before, or with, payment of 1/2 the FEE DUE shown above.

II. Part B-Issue Fee Transmittal should be completed and returned to the Patent and Trademark Office (PTO) with your ISSUE FEE. Even if the ISSUE FEE has already been paid by charge to deposit account, Part B Issue Fee Transmittal should be completed and returned. If you are charging the ISSUE FEE to your deposit account, section "4b" of Part B-Issue Fee Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give application number and batch number.
Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. |
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|------------|----------|-----------|----------------|
| 09/101,612 | 09/14/98 | MARGETSON | G EM240190745U |
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EXAMINER

VU, D

ART UNIT

PAPER NUMBER

2821

DATE MAILED: 09/24/99

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

Notice of Allowability

Application No.

09/101,612

Applicant(s)

Margetson et al.

Examiner

David Vu

Group Art Unit

2821



All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance and Issue Fee Due or other appropriate communication will be mailed in due course.

☒ This communication is responsive to applicants' filing date of 9/14/98.

☒ The allowed claim(s) is/are 1-15.

☐ The drawings filed on _____ are acceptable.

☒ Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).

☒ All ☐ Some* ☐ None of the CERTIFIED copies of the priority documents have been

☒ received.

☐ received in Application No. (Series Code/Serial Number) _____.

☐ received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

*Certified copies not received: _____.

☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

A SHORTENED STATUTORY PERIOD FOR RESPONSE to comply with the requirements noted below is set to EXPIRE **THREE MONTHS** FROM THE "DATE MAILED" of this Office action. Failure to timely comply will result in ABANDONMENT of this application. Extensions of time may be obtained under the provisions of 37 CFR 1.136(a).

☐ Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL APPLICATION, PTO-152, which discloses that the oath or declaration is deficient. A SUBSTITUTE OATH OR DECLARATION IS REQUIRED.

☒ Applicant MUST submit NEW FORMAL DRAWINGS

☐ because the originally filed drawings were declared by applicant to be informal.

☒ including changes required by the Notice of Draftsperson's Patent Drawing Review, PTO-948, attached hereto ~~or~~ to Paper No. _____.

☐ including changes required by the proposed drawing correction filed on _____, which has been approved by the examiner.

☒ including changes required by the attached Examiner's Amendment/Comment.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the reverse side of the drawings. The drawings should be filed as a separate paper with a transmittal letter addressed to the Official Draftsperson.

☐ Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Any response to this letter should include, in the upper right hand corner, the APPLICATION NUMBER (SERIES CODE/SERIAL NUMBER). If applicant has received a Notice of Allowance and Issue Fee Due, the ISSUE BATCH NUMBER and DATE of the NOTICE OF ALLOWANCE should also be included.

Attachment(s)

☒ Notice of References Cited, PTO-892

☒ Information Disclosure Statement(s), PTO-1449, Paper No(s). 41/2

☒ Notice of Draftsperson's Patent Drawing Review, PTO-948

☐ Notice of Informal Patent Application, PTO-152

☒ Interview Summary, PTO-413

☒ Examiner's Amendment/Comment

☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material

☒ Examiner's Statement of Reasons for Allowance

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#6
Amdt A
DV
9/23/99

Examiner's Amendment

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Bruce Prout on 9/21/99.

2. The application has been amended as follows:

page 1, before line 2, ---FIELD OF THE INVENTION--- has been added; before line 4, ---BACKGROUND OF THE INVENTION--- has been added; lines 13,25,28, "energisation" has been changed to ---energization---; before line 22,---SUMMARY OF THE INVENTION--- has been added; line 34, "said" has been deleted.

page 2, lines 4-6,8, "fibre" has been changed to ---fiber---; "fibres" has been changed to ---fibers---; line 9, "elctro" has been changed to ---electro---; before line 16, ---BRIEF DESCRIPTION OF THE DRAWINGS--- has been added; before line 28 ---DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS---.

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page 3, lines 8,17, "energisation" has been changed to ---energization---; line 30, "short" has been changed to ---short time---; line 34, "my" has been changed to ---may---.

page 4, line 30, "colour" has been changed to ---color---; lines 34-35, "energisation" has been changed to ---energization---; line 35, comma "," has been deleted.

page 5, line 1, "colour" has been changed to ---color---; line 8, "fibres" has been changed to ---fibers---; line 9, "elctro-optical fibres" has been changed to ---"electro-optical fibers"; line 18, "elctro-optical" has been changed to ---"electro-optical"; line 28, "show" has been changed to ---shown---.

page 6, line 8, "synchronise" has been changed to ---synchronize---.

Claim 1, line 6, "energisable" has been changed to ---energizable---; line 10, "energisation" has been changed to ---energization---; line 11, "the persistence" has been changed to ---persistent---; line 12, "the" has been changed to ---a---; line 13, "the" (third occurrence) has been changed to ---a---; line 15, "the" (first occurrence) has been changed to ---a---, "whereby" has been changed to ---such that---.

Claim 2, line 2, "the" has been deleted, "a" has been changed to ---the---; line 3, "viewer" has been changed to ---observer---.

Claim 3, line 3, "the" has been deleted; line 4, "the" (third occurrence) has been deleted.

Claim 5, line 3, "energisations" has been changed to ---energizations---.

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Claim 6, line 1, "any preceding claim" has been changed to ---to claim 1---;line 2, "colours" has been changed to ---color~~s~~---;line 4, "energisation" has been changed to --
-energization---, "coloured" has been changed to ---colored---.

Claim 7, line 1, "any preceding claim" has been changed to ---to claim 1---.

Claim 8, line 1, "any preceding claim" has been changed to ---claim 1---;line 2, "the" has been changed to ---a---.

Claim 9, line 4, "the" has been changed to ---a---;line 5, "energised" has been changed to ---energized---.

Claim 10, line 2, "any preceding claim" has been changed to ---claim 1---;line 3, "each" has been changed to ---,each program---.

Claim 12, line 4, "the" has been changed to ---a-~~f~~.

Claim 13, line 1, "In a" has been changed to ---A~~f~~---; "a" has been changed to ---
having a---;line 3, "comprises" has been changed to ---comprising---;lines 4-5,7, "fibres" has been changed to ---fibers---;lines 4-5, "at one end of the bundle" has been deleted;line 7, "the" (first occurrence) has been deleted;line 13, "the" has been changed to ---a~~f~~---;line 14, "the" has been changed to ---the display---;line 15, "the persistence" has been changed to ---a persistent~~f~~---; "the" has been changed to ---a~~f~~---;line 16, "whereby" has been changed to ---such that---.

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Claim 14, line 1, "A" has been changed to ---A transport---; line 2, "remote" has been deleted.

Claim 15, line 1, "display" has been changed to ---transport---; line 3, "the" has been changed to ---a---; line 5, "data" has been changed to ---the data---; "to" (first occurrence) has been changed to ---from---.

3. The following changes to the drawings have been approved by the examiner and agreed upon by applicant: figure 3, the second resistor "R36" (not resistor R36 next to resistor R35) should be changed to ---R41---. In order to avoid abandonment of the application, applicant must make these above agreed upon drawing changes.

4. The following is an examiner's statement of reasons for allowance:

The prior art does not teach or disclose a visual information system comprising an array consisting of a plurality of individually and selectively energizable light sources arranged in rows and columns, a memory, and a controller wherein the rate of operation of the controller being set to correspond with the speed of the carrier past the array such that the observer in the carrier past the array will observe a predetermined image represented by a program stored in the memory as a stationary image occupying an area substantially larger than the that of the array (claim 1), and a transport system including a visual display system comprising a fiber optic array bundle in which ends of the

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individual fibers at one end of the bundle form a vertically elongate array of rows and columns and ends of the same at other end of the bundle connected to an electro-optical interface unit, and means for controlling the rate at which the control means supplies electrical signals in accordance the speed of the carrier past the display system wherein the observer on the carrier will perceive simultaneously a single horizontally elongate display consisting of successive images located side by side created by the array (claim 13).

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to David Vu whose telephone number is (703) 305-6077.

6. Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 308-0956.

7. Papers related to Technology Center 2800 applications **only** may be submitted to Technology Center 2800 by facsimile transmission. Any transmission not to be

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considered an official response must be clearly marked "DRAFT". The faxing of such papers must conform with the notice published in the Official Gazette, 1096 OG 30 (November 15, 1989). The Technology Center Fax Center number is (703) 308-7722 or (703) 308-7724.

D.V.

September 23, 1999



David H. Vu
Primary Examiner